



TEXAS TECH UNIVERSITY

Department of Computer Science

## Deep Learning in Interdisciplinary Research

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*Stevens Institute of Technology*

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3:30 p.m.

Zoom

**Abstract:** Artificial intelligence, particularly deep learning, has made remarkable advances in recent years, achieving significant breakthroughs in the development of novel models, algorithms, and applications. As researchers in the field of engineering, we are committed to leveraging deep learning to identify emerging challenges, tackle new problems, and create innovative applications. In this talk, we will present our recent work in deep learning research for applications in signals and systems, with a particular focus on wireless communications, biomedical engineering, and various other engineering domains. Our objective is to foster interdisciplinary collaboration in the field of deep learning research.

**Bio:** Dr. Yu-Dong Yao has been with Stevens Institute of Technology since 2000. From 2007 to 2018, he served as Stevens' department chair of electrical and computer engineering. Previously, Dr. Yao worked for Carleton University (Ottawa), Spar Aerospace (Montreal), and Qualcomm (San Diego). Dr. Yao's research interests include information technologies, wireless communications, artificial intelligence, telehealth and AI medicine. Dr. Yao is a Fellow of IEEE (2011), National Academy of Inventors (2015), Canadian Academy of Engineering (2017), American Institute for Medicine and Biological Engineering (2021), and Asia-Pacific Artificial Intelligence Association (2022). Dr. Yao obtained his Ph.D. degree in electrical engineering from Southeast University in 1988.

